

AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of the claims in this application.

1. (Currently Amended) A device architecture for running applications, comprising:

an operating system (OS) comprising an OS scheduler;

a Dynamic Configurable Hardware Logic (DCHL) layer comprised of a plurality of Logic Elements (LEs) dynamically configured to execute applications on the device;

interposed between said OS and said DCHL layer, a TiEred Multi-media Acceleration Scheduler (TEMAS) that cooperates with the OS scheduler for scheduling and for prioritizing the applications; and

based on the scheduling and the priority, configuring at least some of the plurality of LEs of the DCHL to execute the applications.

2. (Currently Amended) A device architecture as in claim 1, where the TEMAS is comprised of a Tier-1 scheduler that communicates with the OS scheduler and at least one Tier-2 scheduler interposed between the Tier-1 scheduler and one DCHL configurable device, where the at least one Tier-2 scheduler communicates with the Tier-1 scheduler and the DCHL configurable device, allowing different DCHL to be compatible with a generic OS scheduler.

3. (Currently Amended) A device architecture as in claim 1, where the TEMAS operates in response to configuration requests to configure and reconfigure the at least some of the plurality of LEs in accordance with as at least one algorithm logic.

4. (Currently Amended) A device architecture as in claim 1, where said plurality of LEs are disposed within in at least one context arranged in at least one context plane.

5. (Original) A device architecture as in claim 2, comprising an application layer that comprises at least one application, a service layer that comprises said Tier-1 scheduler and

said OS scheduler, a node layer that comprises said at least one Tier-2 scheduler that is coupled to a scheduling algorithm of said Tier-1 scheduler, and a hardware layer that comprises said at least one DCHL configurable device.

6. (Original) A device architecture as in claim 1, where said device comprises a device having wireless communications capability.

7. (Currently Amended) A method ~~to execute applications in a device~~, comprising:

providing an operating system (OS) comprising an OS scheduler and a Dynamic Configurable Hardware Logic (DCHL) layer comprised of a plurality of Logic Elements (LEs) dynamically configured to execute applications on a device;

interposing between said OS and said DCHL layer a TiEred Multi-media Acceleration Scheduler (TEMAS); and

operating the TEMAS in cooperation with the OS scheduler for scheduling and for prioritizing the applications; and

based on the scheduling and the priority, configuring at least some of the plurality of LEs of the DCHL to execute the applications.

8. (Currently Amended) A method as in claim 7, where the TEMAS is comprised of a Tier-1 scheduler for communicating with the OS scheduler and at least one Tier-2 scheduler interposed between the Tier-1 scheduler and one DCHL configurable device, where the at least one Tier-2 scheduler communicates with the Tier-1 scheduler and the DCHL configurable device, allowing different DCHL to be compatible with a generic OS.

9. (Currently Amended) A method as in claim 7, further comprising receiving configuration requests with the TEMAS and, in response, configuring and reconfiguring the at least some of the plurality of LEs ~~in accordance with as~~ at least one algorithm logic.

10. (Currently Amended) A method as in claim 7, where said plurality of LEs are ~~disposed within~~ arranged in at least one context ~~arranged in at least one context plane~~.

11. (Currently Amended) A method as in claim 8, comprising an application layer that comprises ~~at least one application~~ the applications, a service layer that comprises said Tier-1 scheduler and said OS scheduler, a node layer that comprises said at least one Tier-2 scheduler that is coupled to a scheduling algorithm of said Tier-1 scheduler, and a hardware layer that comprises said at least one DCHL configurable device.

12. (Currently Amended) A method as in claim 7, where said device ~~comprises a device having that is configured to execute applications~~ has wireless communications capability.

13. (Currently Amended) A wireless communications device, comprising:

an applications layer comprising a plurality of applications;

a service layer comprising an operating system (OS) having an OS scheduler;

a hardware layer comprising Dynamic Configurable Hardware Logic (DCHL) comprised of a plurality of Logic Elements (LEs) dynamically configured to execute applications on the device; and

interposed between said OS and said DCHL in said service layer and in a node layer, a TiEred Multi-media Acceleration Scheduler (TEMAS) that cooperates with the OS scheduler for scheduling and for prioritizing the applications; and

based on the scheduling and the priority, the TEMAS configuring at least some of the plurality of LEs of the DCHL to execute said applications.

14. (Currently Amended) A device as in claim 13, where said TEMAS is comprised of a Tier-1 scheduler that communicates with the OS scheduler and at least one Tier-2 scheduler interposed between the Tier-1 scheduler and one DCHL configurable device, where the at least one Tier-2 scheduler communicates with the Tier-1 scheduler and the DCHL configurable device, allowing different DCHL to be compatible with a generic OS scheduler.

15. (Currently Amended) A device as in claim 13, where said TEMAS operates in response to configuration requests to configure and reconfigure the at least some of the plurality of LEs in accordance with as at least one algorithm logic.
16. (Currently Amended) A device as in claim 13, where said plurality of LEs are disposed within in at least one context arranged in at least one context plane.
17. (Original) A device as in claim 13, where said device comprises a cellular telephone.
18. (New) The device of claim 3 where the plurality of LEs are configured as more than one algorithm logic and where the more than one algorithm logic operate simultaneously to execute the applications.
19. (New) The method of claim 9 where the plurality of LEs are configured as more than one algorithm logic and where the more than one algorithm logic operate simultaneously to execute the applications.
20. (New) The wireless communications device of claim 15 where the plurality of LEs are configured as more than one algorithm logic and where the more than one algorithm logic operate simultaneously to execute the applications.